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Trabajo De Algebra Lineal
D Sea V= d(a,b): a,b & IR), probamos los 8 supuestos de los espacios vectorida
a. x+y=y+x, Vx,yeV
 i) (a,b)+(c,d) = (ac,bd) = (ca,db) = (c,d)+(a,b)
                                                          ( VERDADERO)
 ii) (a, b) + (c,d) = (a+d, b+c) = (d+a, c+b) = (d,c) + (a,b)
                                                          (FALSO)
 ii)(a,b)+(c,d)=(ac,bd) = (cq,db)=(c,d)+(a,b)
                                                         (VERDADERO)
 iv)(a, b)+(c,d) = (0,0) , (c,d) +(a,b) = (0,0)
                                                        (VERDADERC)
 V)(a,b) +(c,d) = (ac,bd) = (ca,db) = (c,d) + (a,b)
                                                       (VERDA DERO)
vi) (a/b)+(c,d) = (a+c, b+d) = (c+a,d+b) = (c,d)+(a
                                                             (VERDADERO)
b.(x+y)+Z = x+(y+Z), V x,y,Z € V
i)[(9,b)+(c,d)]+(e,f) = (ac,bd)+(e,f)= (ace,bdf)
                                                           (VERDADERO)
  = (a(ce), b(d+1) = (a, b) + (ce, d+) = (a, b) + [(c, d) + (e, f)]
ii)[(a,b)+(c,d)]+(e,f)=(a+d,b+c)+(e+f)=(a+d+f,b+c+e)=
  (a,b)+[(c,d)+(e,f)]=(a,b)+((+f,d+e)=(a+d+e,b+c+f)
ii)[a,b)+(c,d)]+(e,f)
                      ... similar ai)
iv) [ca,b)+cc,d)]+(e,f)= (0,c)+(e,f)=(0,c)a
                                                      (VERDADERO)
  (a,b)+[(c,d)+(e,f)]=(q,b)+(9,0)=(0,0)
                                                     (VERDADERO)
V) similar a i)
vi)[(a,b)+cgd)]+(e,f)= (a+c,b+d)+(e,f)= (a+c+e,b+d+f) &
  (a,b)+[(c,d)+(e,f)]=(a,b)+(c+e,d+f)=(a+k+e,b+d+f)
C. 310 e V : 6 ×+0=×, 4 × e V
i) (a,b) + (a,a_2) = (a0,b0_2) = (a,b) \rightarrow 0, = 0_2 = 1 \rightarrow 0 = (1,1) \in V (VERDADERO)
iil(a,b)+(0,,02) = (a+02, b+0,)=(a,b) > 0,=02=0 > 0=(0,0) & V
                                                            (VERDADERO)
iii) ... similar a i)
                                                           (VERDADERO)
(FALSC)
v) ... similar a il
                                                          (VERUADERO)
Vil (a,b) + (0,,02) = (a+0,, b+021=(a,b)+ a=0=0-70=(0,0) +V
                                                            (VERDADERO)
d. Yx & V, Jx' & V : x + x' = 0
i) (a,b)+(a',b')= (ac', bb')= (c,0) > a'=b'=0 stand(a,b')=(0,0)+V (VERDADERO)
ii) (a, b) + (a', b') = (a+b', b+a') = (gc) > b'=-a, a'=-b > (a,b') = (Ab) = (VERDADERO)
                                                                (VERDADERO)
ill) 4 ... similar a il
ir)(a,b)+(a',b') = (0,0) = (0,0) > a',b' & IR > (a,b') & V
                                                                (VERVADERO)
                                                               (VERDADERC)
VI ... Similar a
Vi) (a, b) + (a) b' 1 = (a+a, b+b') = (0,0) - a = -a, b' = -b - (a, b') = (-a, -b) + V
                                                                (VERUADERO)
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e.lx=x, xx+V
                                                                                                                                                                        MERSONRO
  i) L(a,b) = (a,b) = (a,b)
                                                                                                                                                                       (VERDADERO)
 W) L(a, b) = (a, b) = (a, b)
                                                                                                                                                                      (VERDADERO)
 ili) ((a, b) = (1.a, 1.b) = (a, b)
                                                                                                                                                                      CVERDADEREY
 iv) ... similar a li)
                                                                                                                                                                     (VERDADERD)
 VI ... similar a iil
 vii 1(a,b)=(1.a,0)=(a,0) + (a,b)
                                                                                                                                                                     (FALSO)
1. a(Bx)=(dB)x, YxeV, dBeIR
i) d[18(a, b)] = (dp)a, b) = (dp)(a, b)
                                                                                                               (VERDADERO)
ii, iii) d[p(a,b)] = d(pa,pb) = (dpa,dpb) = (dp)(a,b)
                                                                                                                           (VERDADERO)
vii d[B(a,b)] = d(Ba,0) = (dBa,0) = (dB)(a,b)
                                                                                                                           (VERDADERO)
g. (d+B)x = dx+Bx, YxeVnd,BEIR
i) (d+B)(a,b) = (d+B)a,b) = (da+Ba,b) = +
                                                                                                                         (FALSO)
      de, b)+ B(a,b) = (da,b)+(Ba,b) = (dBa2, b2)
ii) (a+B)(a,b) = ((a+B)a, (d+B)b) = (da+Ba, db+Bb) = 
d(a,b)+B(a,b) = (da,2b)+(BayBb) = (da+Bb, db+Ba) = 
$\frac{1}{2}$
                                                                                                                         (FALSC)
iii) (1+B)(a,b) = ((4+B)a,(4+B)b) = (da+Ba, ab+Bb) () +
                                                                                                                        (FALSC)
    d(a, b) + yz(a, b) = (da, db) + (Ba, Bb) = (dBa2, dBb2)
iv) (d+B) (a,b) = (aat Ba, db+Bb)
                                                                                                                 (FALSO)
  d(9,6)+18(a+6) = (A9,46)+(B9, B6)= (0, C)
                                                                                                        (FALSC)
V) ... similar a iii)
vi) (++B) (a,b) = ((a+B)a, (a+B)b) = (da+Ba, db+Bb) (
                                                                                                                           ( VERDADERC)
  d(a,b)+B(a,b) = (da,db)+(Ba,Bb) = (da+Ba,db+Bb)
h. d(x+y) = dx+dy, yx, y&V A & EIR
i) d[(a,b)+(c,d)] = d(ac,bd) = (aac,bd)
  da,b)+d(c,d)=(da,b)+(dc,d)=(d2ac,bd) =
                                                                                                                     (FALSC)
ii) d[(a,b)+(c,d)) = d(a+d,b+c)=(d(a+d),dcb+c))=(da+dd,db+dc) \(\text{VERDADERO}\)
d(a,b) +d(c,d) = (da,db)+(dc,dd) = (\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\f
iii) d[(a,b)+(c,0)] = d(ac,bd) = (dac,dbd)
                                                                                                                                        (FALSC)
    d(a,b)+d(c,d)=(da,db)+(dc,dd)=(d2ac,d2bd)
W) 4[(4,6)+((,d)] = 4(0,0) = (0,0)
                                                                                                                       (VERDA DE RO)
    g(a,b) + x(c,d) = (da, db) + (dc,dd) = (0,0)
 V) ... similar a (il)
                                                                                              (FALSO)
 Vi) d [(a,b) +(c,d)] = d(a+c,b+d) = (da+ac, db+ad) g
                                                                                                                                        (VERDADE RO)
      d(a,b) + d(c,d) = (da,db) + (dc,ord) = (da+dc, db+dd)
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Rpla: Sólo vi) es un espacio vectoral
2. V= (19,6) e 122: a+66=0}
 03(0,10)+1000 - 3-64,0) - (-6(A+01) 6+0)
    llamones e=640 to como -6e/e) & / (venonocke)
Mr Par la operabilidad en IR^ la 1°,2°,5,6°,7°,8° hapótasis se umplen
3. 410 EA: X+0=X, AXEA
                                                          Admas
                                                          (4,6)+(c,d)
                                   0+6.0=0
-> (a,b)+(0,,02) = (a,b) => 0=(c,0)
                                              (VERDADERO)
                                                         (-66,6) + (-60,0)
   0,=02=0
                                   >OeV
                                                          (-6(6+d), b+d)
                                                          (-6e,e) = V
4. AxeN, 3x, EN: x+x = 0
                                                            K(9,6)
                                                             14(-66,6)
+(a, b) +(a', b') = (c,c) +(a', b') = (-a, -b) (VERDADERO) (-K66, Kb)
    a' = -a, b' = -b (-a) + 6(-b) = 0 \times (-1) (-6(kb), kb)
PpTq: Es especio ver. C+6b=0 = V (-6e,e) ∈ V
3. V= (m,y) ∈ IR²: 3x-y=1}
Por la operabilidad en IR2 la 1,2,5,6,7,8 hipóTesis se cumple
\rightarrow (x_1,x_2)+(y_1,y_2)=(x_1,3x_1-1)+(y_1,3y_1-1)=(x_1+y_1,3(x_1+y_1)-2) \notin V
  Rote: No es especio vec.
4 a) 5 = (x,,x2,x3,x4) & 124: x,-x4 = 0 1 x2-x4=x3)
 ~ 0 = (0,C,C,O)
                  0-0=0 1 0=0 =0 => 0 e5
 -> d(x, x2, x3, x4) + (3(4, , 42, 43, 74) = (dx, + 134, , dx2 + 1343, dx3 + 1343, dx4+ 1343)
       XX, +134, - (XX, +1344) = 0
                                    V 9x2+BX5-(9x4+BX4)= 9x3+BX3
       d(x,-x4)+13(4,-74)=0
                                      X(x2-x4)+13(y2-y4)=
            0+0=0
holas es un subcagua especio vedorial de 124.
                                          dx3+BY3=dx3+BY3
$ b) M = {(x,4,2): Z= 3x, x=24}
 -, 0=(0,0,0) 0=3.0 ~ 0=2.0 -> 0 EM
> d(x,, X2, X3)+B(4,,42,43) = (dx, fB4, dx2+B42, dx3+B43)
        dx_3 + \beta \gamma_3 = 3(dx_1 + \beta \gamma_1)
                                    1 2x1+BY, = 2(dx2+BY2)
        3dX1+3BY,=3(dx1+BY1)
                                       2dx2+21342 = 2(dx2+1842)
Rplai M es un subespacio vectorial de R3.
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C) 
$$U = \{(x, y, z) \in \mathbb{R}^3 : xy = 0\}$$
 $>0 = (0, 0, 0)$ 
 $> 0 = (0, 0, 0)$ 
 $> 0 = 0$ 
 $> 0 \in (0, 0, 0)$ 
 $> 0 = 0$ 
 $> 0 \in (0, 0, 0)$ 
 $> 0 = 0$ 
 $> 0 \in (0, 0, 0)$ 
 $> 0 = 0$ 
 $> 0 \in (0, 0, 0)$ 
 $\Rightarrow ((x, y, x_1, y_1) + (x_2, y_2) = 0$ 
 $\Rightarrow (x_1 + (x_1, y_1) + (x_2, y_1) + (x_2, y_2) = 0$ 
 $\Rightarrow (x_1 + (x_1, y_1) + (x_2, y_2) + (x_2, y_1) + (x_2, y_2) = 0$ 
 $\Rightarrow (x_1 + (x_1, y_1) + (x_2, y_2) + ($ 

in no es comblin de Vi y V2

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Robamos si son li.
                  d_1(x) + d_2(2x - x^2) + d_3(6x - 2x^2) = 0
                                        (d, +2d2+6d3) x + (-d2-2d3) x2 = 0
                                                         d_1 + 2d_2 + 6d_3 - (d_2 + 2d_3) \times = 0
                                                                                                  x = \frac{d_1 + 2d_2 + 6d_3}{d_2 + 2d_3} = \frac{AL}{2}
                                                                                                                                                                                                                                               A dz + C n dz + C
fabanas sin Gentra a P_2

\Rightarrow ax^2 + bx + C = d_1(x_1 + d_2(2x - x^2) + d_3(6x - 2x^2) = 0
                  ax+ bx + c = (-d2-2d3) x2 + (d1 + 2d2 +6d3)x + 0
            -> a = -d2-2d3 + 0
                                                                                                                                             0.d, + (-1).d2 + (-2).d3 = a [0 -1 -2;a]
                                                                                                                                                                                                                                                                                                                   0 0 0 0 0
                         b = d_1 + 2d_2 + 6d_3 \Rightarrow 1.d_1 + 2.d_2 + 6.d_3 = b
                       C = 0 C.d, +C.d_2 + C.d_3 = C
         \begin{bmatrix} 1 & 2 & 6 & | & b \\ 0 & -1 & -2 & | & a \\ 0 & 0 & 0 & | & c \end{bmatrix} \sim \begin{bmatrix} 1 & 2 & 6 & | & b \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} \sim \begin{bmatrix} 1 & 2 & 6 & | & b \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & c \end{bmatrix} = \begin{cases} 1 & 2 & 6 & | & 6 & | & 6 \\ 0 & 1 & 2 & | & -a \\ 0 & 0 & 0 & | & -a \\ 0 & 0 & 0 & | & -a \\ 0 & 0 & 0 & | & -a \\ 0 & 0 & 0 & | & -a \\ 0 & 0 & 0 & | & -a \\ 0 & 0 & 0 & | & -a \\ 0 & 0 & 0 & | & -a \\ 0 & 0 & 0 & | & -a \\ 0 & 0 & 0 & | & -a \\ 0 & 0 & 0 & | & -a \\ 0 & 0 & 0 & | & -a \\ 0 & 0 & 0 & | & -a \\ 0 & 0 & 0 & | & -a \\ 0 & 0 & 0 & | & -a \\ 0 & 0 & 0 & | & -a \\ 0 & 0 & 0 & | & -a \\ 0
                               RATE: « no es base
b) {1-2x,3x+x2-x3,1+x2+2x3,3+2x+3x3} en P3
Probomes si son L.I.
        d_1(1-2x)+d_2(3x+x^2-x^3)+d_3(1+x^2+2x^3)+d_4(3+2x+3x^3)=0
     (d_1 + d_3 + 3d_4) + (-2d_1 + 3d_2 + 2d_4) \times + (d_2 + d_3) \times^2 + (-d_2 + 2d_3 + 3d_4) \times^3 = 0
         1.d, + C.d2 + 1.d3 + 3.d4 = 0 - 1 0 L 3 0 10 10 10
   -2.d, +3.d2+C.d3+2.d4 =0 2 -2 3 0 2 0 -3 0 3 2 5 0
     C.d_{1} + 1.d_{2} + 1.d_{3} + 0.d_{4} = 0 \quad \text{if } 0 = 0 \text{ if } 0 = 0
   O DI + O. DIS
     C.d, + (-1). d2 + 2. d3 + 3. d4 = 0

\begin{bmatrix}
1 & 0 & 1 & 3 & 1 & 0 \\
0 & 0 & -1 & 5 & 1 & 0 \\
0 & 1 & 1 & 0 & 0 \\
0 & 0 & 3 & 3 & 0
\end{bmatrix}

\begin{bmatrix}
1 & 0 & 1 & 3 & 0 \\
0 & 1 & 1 & 0 & 0 \\
0 & 0 & -1 & 5 & 0 \\
0 & 0 & 1 & 1 & 0
\end{bmatrix}

\begin{bmatrix}
1 & 0 & 1 & 3 & 0 \\
0 & 1 & 1 & 0 & 0 \\
0 & 0 & -1 & 5 & 0 \\
0 & 0 & 0 & 6 & 0
\end{bmatrix}

                                                                                                                                                                                                                                                                                                                                                              2,=0
                                                                                                                                                                                                                                                                                                                                                              2=0
                                                                                                                                                                                                                                                                                                                                                             d3 = 0
                                                                                                                                                                                                                                                                                                                                                         dy = 0
                                                                   -> son L.I.
  Probamos si seneran a P3
    ax^3+bx^2+cx+d=d_1(1-2x)+d_2(3x+x^2-x^3)+d_3(1+x^2+2x^3)+d_4(3+2x+3x^3)
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7.91 (x, 2x - x2, 6x - 2x2) en Pz

 $0x^{3}+bx^{2}+cx+d=(-d_{2}+2d_{3}+3d_{4})x^{3}+(d_{2}+d_{3})x^{2}+(-2d_{1}+3d_{2}+2d_{4})X+(d_{1}+d_{3}+3d_{4})$ 

ha matriz de coeficientes del SEL (iguel al de la antivier perte) es \$0, por 10 que el sistema Tione solución y pormite sonora a Pa. of the base de 13 8. Si pt= fu,v,w}=V, es un cargento L.I., doTarminar la D.L. o I.L. de 1 B= {du+Bv, 2v-dw, Bw+ 2v}, pera d, B, 2 e 1R. Satomes que Qu+Q2V+Q3W=Q+ Q1=Q2=Q3=0 Querenos probar \$6,(du+BV) + 62(2V-dw)+b3(BW+2V)=0->6,=b2=63=0 ∃ b; ≠ c, i=1,33 -> b, du + (b, p+b, 2+b, 2) V+(b, p-b, 2) W=0 a14+ a2v+ a3 W = 0 bid=0 1 6, B+ bi 2+ b32=0 1 63B-62 a = 0 (4=0 ub=0) ~ ab, B+db2 x+db3 x=0 13b3 = db2 Bb3 2+4632 = 0 22=25° ( \lambda b\_3 = 0 v d+ \beta = 0) Superenos a, B, X = 12/10} Existe el caso donde bz + C v bz + C  $S: b_3 = 0 \implies b_2 = 0$ 5: d=-B -> 62+b3 =0 Rp7a: 5; x=-B, B es D.d. L.D. S; & +-B, B es L.I. 9. 5: B= {L,e,e2,e3,e4} Suponamos el SE tione solución odi=C, Vi, es deir, B es l.I. exex. ex. ex +0 Se sabe que e'x >0

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10. 5: B= {v, v2, v2, ..., Vm} es L. I. DeTerminar la linaelidad de
      A = 1 v, , v2 - v, , v3 - v, , ... , vm - v,)
 Sabanos d, V, + d2 V2 + ... + dm Vm = 0 -> d, = d2 = ... 7dm = 0
 Probamos B.V. + B2(V2-V1) + ... + Pm(Vm-V1) = 0
   (B, - B2 - B3 - ... - Bm )V, + B2 V2 + ... + Bm Vm = 0
  -> (B1-ZBi)=0 ~ B2=B3=...=Bm=0
                                                      00 Bi=0, Vi=1,2,..., m
      \beta_i = \sum_{i=2}^{m} \beta_i = \sum_{i=2}^{m} 0 = 0
                                        RpTa: A es L. I.
 11. Sean V un IR-especie vec. y los subespecios W. y Wz demostrar
      dim (W,+W2) = dim (W,)+dim (W2) - dim (W, ~ W2)
Tenanos Wit W2 = 1 W = V: W= W, + W2, w, & W, w2 & W2}
5: Tenomos gen(Wi) = {u, u, ..., un}, gen(W2) = {V, v2;..., vm} y gen(WinW2) = {5,,52,..., 5p}
y & 6 IR n & B & IR P
    w = d.(u, u2, ..., un) + B. (V., V2, ..., Vm)
entonces w es una combinación lineal de n+m vectores, mas no submemos si san L.I.
Disamos que (12,42, 12,41, 12,41, 20,000 a W, 74,2 le, es, ..., eq ] = gan(W, +We
                                                           ya que pueda sor L.I. o no
> lei, ez, ..., eg } = {u, uz, ..., un} v {v, vz, ..., vm} ontonces q & n+m
      gen(W,+W2) = gen(W,) ugen(W2).
  n(gon(W_1+W_2)) = n(gon(W_1)) + n(gon(W_2)) - n(gon(W_1)) + gon(W_2)) ... (L)
Ahoren Tomos Win Wz = { we V: weWin we Wz} per 10 que
              w = d.(u, u2, ..., un) = B. (v, v2, ..., vm) - d.(u, u2, ..., un) - B(v, v2, ..., vm) = 0
Si de esta isualded extraomos Adition alsunos di a Bi que no son nulos y atros que si
Los que pson nulos se recolectan an 10:5:=1 y sus respectivos vectores an {5:};=1
e.g. un "ij & [', p] n > dj. uj = Bk. Vk - {dj, pk} [ (0; ) = 1 di, vk} = {Si}"
        THE antonces hay algunos of the pis u's que suán isuales a no
\Rightarrow 450 \Rightarrow \{s_i\}_{i=1}^p = \{u_i\}_{i=1}^n \cap \{v_i\}_{i=1}^m
               Son(W, nW_2) = Sen(W,) n Son(W_2)
                                                               ENERGY OF THE WAR WIND EN
Volvindo a ... (L)
   d:m (W,+W2) = dim(W,)+dim (W2) - n(sn(W, n W2))
  din(W,+W2) = din(W,)+din(W2) - din(W, nW2)
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Wi, We son sub. vec. de V
 13. Donos Trar que W, + W2 = (W, v W2), si
  Rentomamos una línea enter de ... (U) en 12.
   ganlw, +W2) = gan(W1) u gan(W2)
 Tenanos WiuWz={weV: weWiuweWz}
                                       => W=d. W ~ W= B.V
 res casos
 @ w=d. u @ w=B.V @ w=d.u=B.V
 por le Tanto a w lo servan todos los elementos de u y de v, sin emberso
 si al momento de evaluar a.u-B.v=0 > x=B=0 gan(W,VW2)=gan(W)Usan(W2)
                                                    rsn(Wi)nsn(We) = 0
                perc s: \exists di, \beta \neq 0, i = 1, 2, ..., n; j = 1, 2, ..., m gan (Wi u W2) = san(Wi) u san(h)
                                                      n son(W_1) n son(W_2) \neq \emptyset
En walquier caso, sor(W, W2) = sor(W,) u sor(W2)
   >> gon(W,+W2) = gen(W, UW2)
        W, + W2 = {W, U W2}
4. Dotormina una base para coda subespecio de 124.
 F= (1x,, x2, x3, x4): x, = x2 = x3 = x4)
 (X1, X2, X3, X4) = (X1, X1, X1, X2) = X, (1,1,1,1) , x, ell?
  .. F= <(1,1,1,1) 6
 G = ((x1, X2, X3, X4): X1 = x2 x x3 = x4)
(x, x2, x3, x4)=(x, x1) x3, x3) = (x, x, 0,0) +(x3, x3, x3)
                              = x,(1,1,0,0) + x3(0,0,1,1); x,xg + 12
 -> G= {(1,1,0,0); (0,0,1,1)}
 H = {(x, x2, x2, x4): x, = x2 = x3}
(x, x2, x3, x4)= (x, x, x, x1) = (x, x, x, 0) + (0,0,0, x4) = x, (1,1,1,0) + x4 (0,0,0, 1); x, x4 6/R
    A :. H = <(1,1,1,0); (0,0,0,1)>
K= {(x1, x2, x3, x4): x1+x2+x2+x4=0}
 (x, xe, x3, x4) = (-x2-x3-x4, x2, x3, x4) = (-x2, x2,0,0) + (-x3,0, x3,0) + (-x4,0,0,44)
                               = 1/2(-1,1,0,0) + 1/3(-1,0,1,0) + 1/4(-1,0,0,1)
 : K= ((-1,1,0,0); (-1,0,1,0); (-1,0,0,1))
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X2, X3, X4 & R

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